

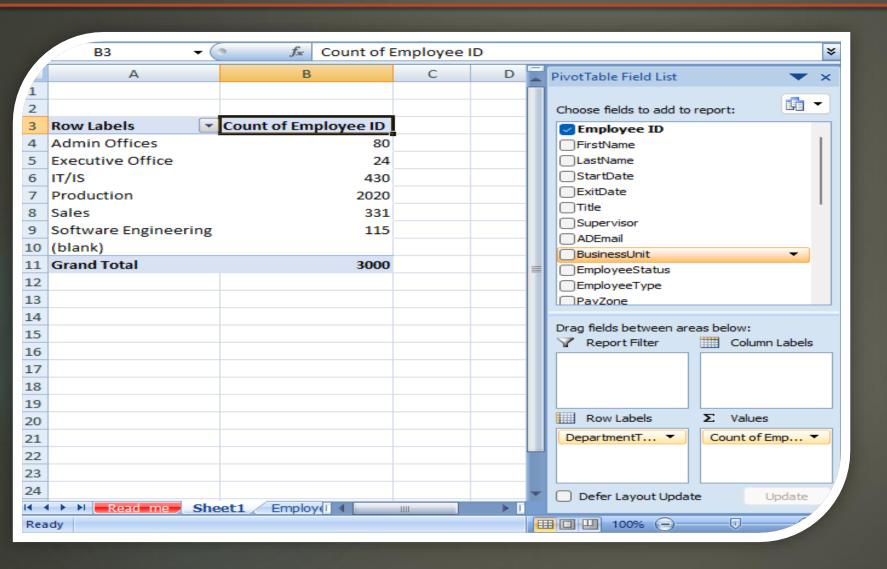
Name: Harshita Shinde

Data Analyst Intern @ PSYUC



1. Can you create a pivot table to summarize the total number of employees in each department?





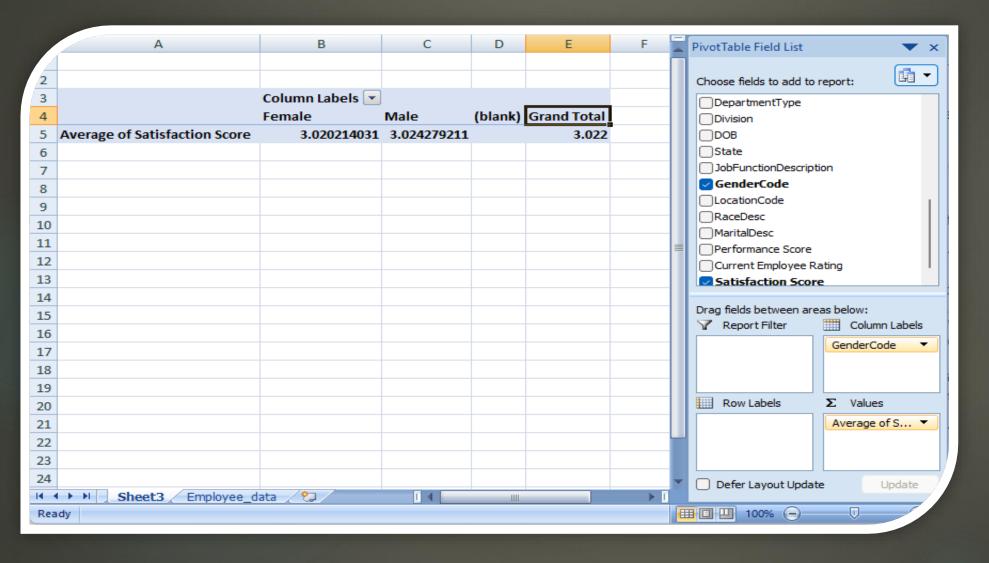
2. Apply conditional formatting to highlight employees with a "Performance Score" below 3 in red.

PSYLIQ

Go to home --- Styles --- Conditional Formatting

There are 2548 Employees who have performance score below 3.

3. Calculate the average "Satisfaction Score" for male and female employees separately using a pivot table.

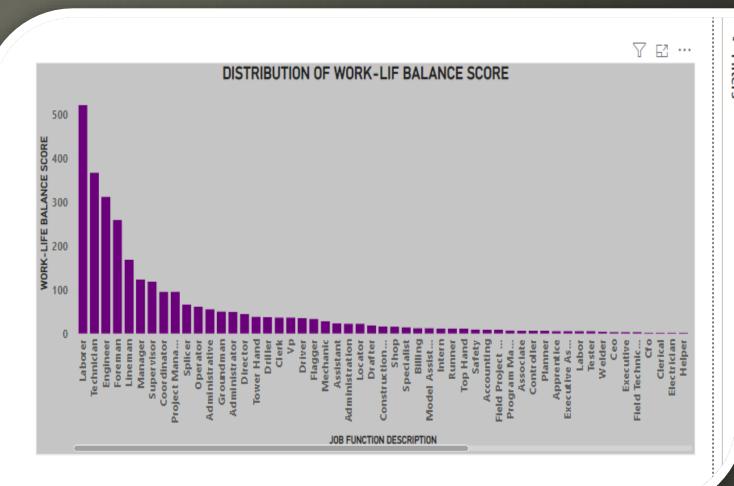




4. Create a chart to visualize the distribution of "Work-Life Balance Score" for different job functions.



	▼ : × ✓ f _x	Row Labels	
	A	D	С
3		B Vork-Life Balance Score	C
4	Accountant	VOIK-LITE BATATICE SCOTE	
5		33	
6	Accounting Administration	67	
7	Administrative	155	
8	Administrator	138	
9	Analyst	2 15	
	Apprentice	63	
11			
	Associate	21	
	Attendant	3	
	Billing	37	
15	•	1	
	Ceo	12	
	Cfo	10	
	Chief Operating Officer	4	
	Cio	1	
	Civil Hand	4	
	Clerical	7	
	Clerk	110	
	Construction Manager	46	
	Contracts	4	
	Controller	21	/
26	Coordinator	302	
	Read_me Sheet2	Employee_data	①



5. Filter the data to display only terminated employees and find out the most common "Termination Type."

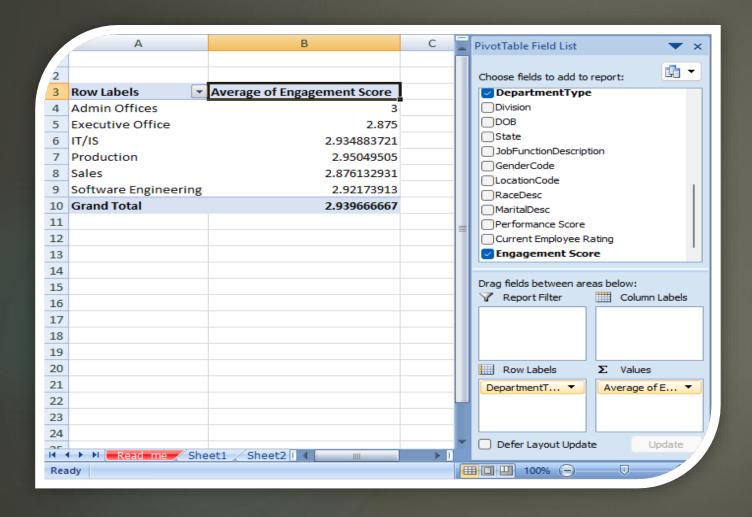


Employee Status with termination type	▼ Count of Employee ID
■ Terminated for Cause	66
Involuntary	21
Resignation	22
Retirement	10
Voluntary	13
■Voluntarily Terminated	321
Involuntary	86
Resignation	74
Retirement	76
Voluntary	85
rand Total	387

The most Common Termination Type is **Resignation**.

6. Calculate the average "Engagement Score" for each department using a pivot table.





7. Use VLOOKUP to find the supervisor's email address for a specific employee.



	A	В	С
1	Employee ID	FirstName	Email ID
8	3433	Latia	latia.costa@bilearner.com
9	3434	Sharlene	sharlene.terry@bilearner.com
10	3435	Jac	jac.mckinzie@bilearner.com
11	3436	Joseph	joseph.martins@bilearner.com

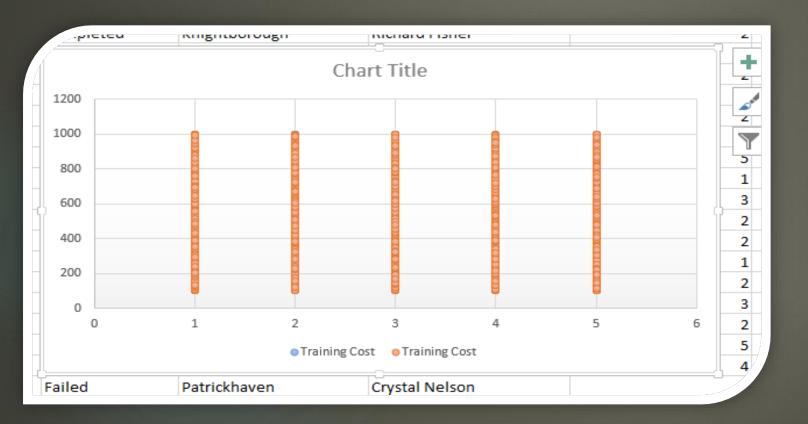
8. Can you identify the department with the highest average "Employee Rating?"



Row Labels	Average of Current Employee Rating
Admin Offices	3.025
Executive Office	2.791666667
IT/IS	2.969767442
Production	2.982178218
Sales	2.909365559
Software Engineering	2.904347826
(blank)	
and Total	2.969

9. Create a scatter plot to explore the relationship between "Training Duration (Days)" and "Training Cost."





10. Build a pivot table that shows the count of employees by "RaceDesc" and "GenderCode."



Count of RaceDesc Column Labels ▼ Row Labels ▼ Female Male Grand Total Asian 346 283 629 Black 346 272 618 Hispanic 325 247 572 Other 318 264 582 White 347 252 599 Grand Total 1682 1318 3000
Row Labels ▼ Female Male Grand Total Asian 346 283 629 Black 346 272 618 Hispanic 325 247 572 Other 318 264 582 White 347 252 599
Row Labels ▼ Female Male Grand Total Asian 346 283 629 Black 346 272 618 Hispanic 325 247 572 Other 318 264 582 White 347 252 599
Asian 346 283 629 Black 346 272 618 Hispanic 325 247 572 Other 318 264 582 White 347 252 599
Black 346 272 618 Hispanic 325 247 572 Other 318 264 582 White 347 252 599
Hispanic 325 247 572 Other 318 264 582 White 347 252 599
Other 318 264 582 White 347 252 599
White 347 252 599
Grand Total 1682 1318 3000

11. Use INDEX and MATCH functions to find the "Training Program Name" for an employee with a specific ID

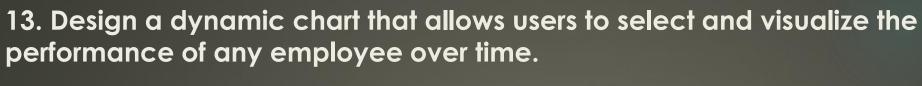


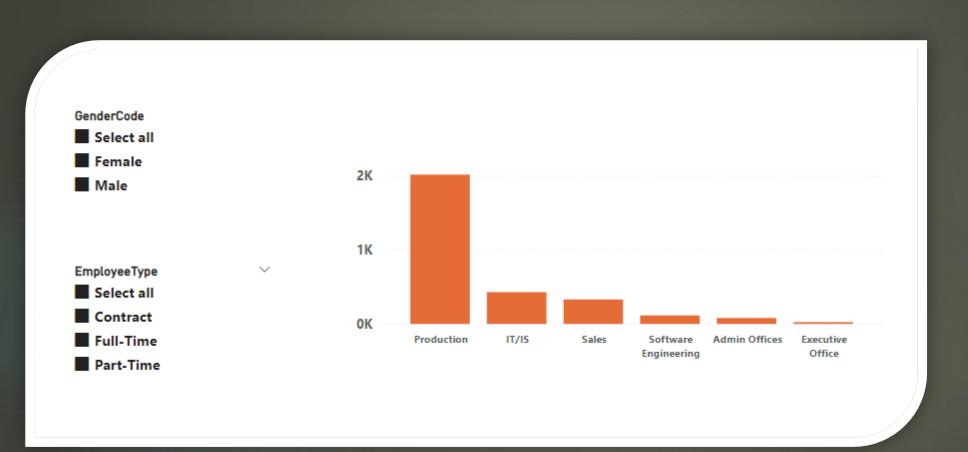
Employee ID	Training Program Name
1001	Customer Service
1002	Leadership Development
1003	Technical Skills
1004	Customer Service
1005	Communication Skills
1006	Project Management
1007	Leadership Development
1008	Technical Skills

12. Create a multi-level pivot table to analyze the "Performance Score" by "BusinessUnit" and "JobFunctionDescription."



	Row Labels 🔻	Count of Performance Score	
	⊞ BPC	303	
	⊞ CCDR	300	
	⊞ EW	302	
	■ MSC	296	
	■ NEL	304	
	⊕ PL	301	
)	■ PYZ	299	
	⊞SVG	304	
2	⊞TNS	297	
3	⊞ WBL	294	
1 (Grand Total	3000	
5			
5			





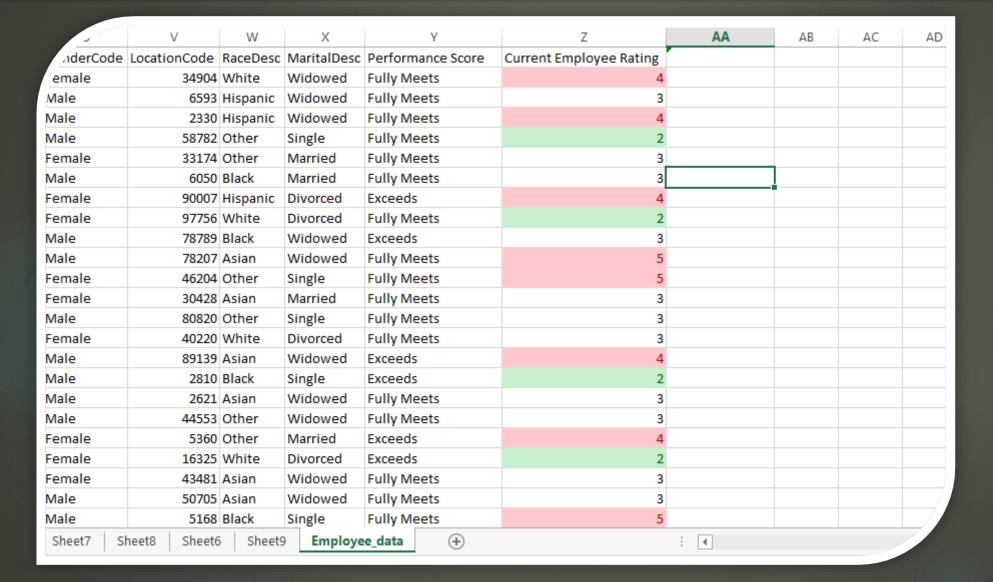


14. Calculate the total training cost for each "Training Program Name" and display it in a bar chart.





15. Apply advanced conditional formatting to highlight the top 10% and bottom 10% of employees based on "Current Employee Rating."





16. Use a calculated field in a pivot table to determine the average "Engagement Score" per year.



xow Labels ▼ A	verage of Engagement score
2018	2.90
2019	3.07
2020	2.94
2021	2.89
2022	2.94
2023	2.83
Grand Total	2.94

17. Can you build a macro that automates the process of updating and refreshing all pivot tables in the workbook?



```
Sub RefreshAllPivotTables()
Dim ws As Worksheet
Dim pt As PivotTable

'Loop through all worksheets in the workbook
For Each ws In ThisWorkbook.Worksheets
'Loop through all pivot tables in the worksheet
For Each pt In ws.PivotTables
'Refresh each pivot table
pt.RefreshTable
Next pt
Next ws
End Sub
```

To run and add macro:

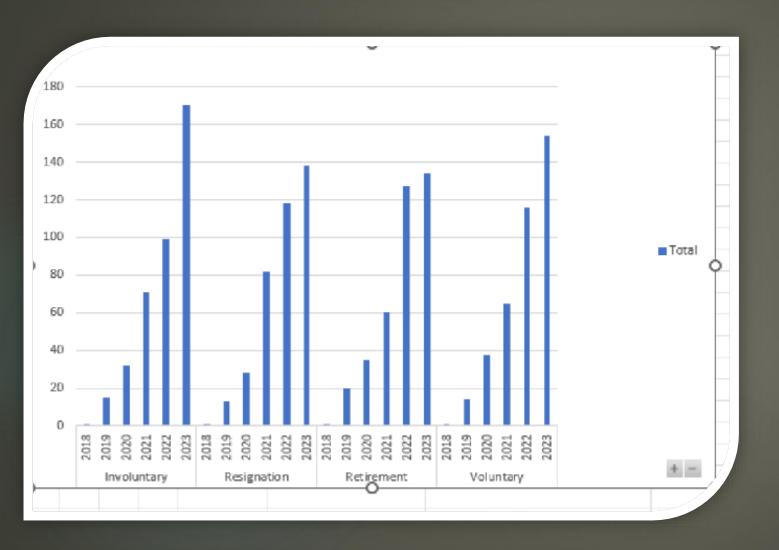
- 1.Press Alt + F11 to open the Visual Basic for Applications (VBA) editor.
- 2.In the VBA editor, right-click on "VBAProject (Your Workbook Name)" in the left pane and choose Insert -> Module to add a new module.
- 3. Copy and paste the provided VBA code into the module.
- 4. Close the VBA editor.

To run the macro:

- 1.Press Alt + F8 to open the "Macro" dialog box.
- 2.Select "RefreshAllPivotTables" from the list.

18. Create a histogram to understand the distribution of "ExitDate" for terminated employees.





19. Utilize the SUMPRODUCT function to calculate the total training cost for employees in a specific location.



2			
3	Row Labels	Sum of Training Cost	
4	Aaronborough	841.22	
5	Aaronburgh	633.96	
6	Aaronstad	939.02	
7	Abbottton	609.01	
8	Acevedoshire	443.55	
9	Adamborough	444.22	
0	Adammouth	1248.77	
1	Adamsberg	962.45	
2	Adamsmouth	367.34	
3	Aguirreland	881.71	
4	Alexanderberg	494.29	
5	Alexanderchester	346.93	
6	Alexandraview	450.64	
7	Alexandriachester	778.25	
8	Alexishaven	127.93	
9	Alfredmouth	328.74	
0	Aliciaburgh	966.19	
21	Aliciahaven	373.87	
2	Allenborough	115.06	
3	Allenhaven	643.63	
4	Allenside	278.33	